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1 [A flexible and scalable authentication scheme for JPEG2000 image codestreams](#)

Cheng Peng, Robert H. Deng, Yongdong Wu, Weizhong Shao

November 2003 MULTIMEDIA '03: Proceedings of the eleventh ACM international conference on Multimedia

Publisher: ACM

Full text available: Pdf (207.02 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 62, Citation Count: 3

JPEG2000 is an emerging standard for still image compression and is becoming the solution of choice for many digital imaging fields and applications. An important aspect JPEG2000 is its "compress once, decompress many ways" property [1], i. e., it ...

Keywords: JPEG2000, authentication, data integrity, digital signature, image compression, merkle hash tree, message digest, one-way hash function

2 [Embedded test control schemes for compression in SOCs](#)

Douglas Kay, Sung Chung, Samiha Mourad

June 2002 DAC '02: Proceedings of the 39th conference on Design automation

Publisher: ACM

Full text available: Pdf (262.82 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 13, Citation Count: 0

This paper presents novel control schemes for testing embedded cores in a system on chip (SOC). It converts a traditional BIST scheme into an externally controllable scheme to achieve a high test quality within optimal test execution time without inserting ...

Keywords: BIST, data compression, test resource allocation

3 [XPRESS: a queriable compression for XML data](#)

Jun-Ki Min, Myung-Jae Park, Chin-Wan Chung

June 2003 SIGMOD '03: Proceedings of the 2003 ACM SIGMOD international conference on Management of data

Publisher: ACM

Full text available: Pdf (277.17 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 112, Citation Count: 18

Like HTML, many XML documents are resident on native file systems. Since XML data is irregular and verbose, the disk space and the network bandwidth are wasted. To overcome the verbosity problem, the research on compressors for XML data has been conducted. ...


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4 [Prefetching for improved bus wrapper performance in cores](#) Roman Lysecky, Frank Vahid

January 2002 Transactions on Design Automation of Electronic Systems (TODAES)

Volume 7 Issue 1


Publisher: ACM

Full text available:  Pdf (430.83 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 37, Citation Count: 2


Reuse of cores can reduce design time for systems-on-a-chip. Such reuse is dependent on being able to easily interface a core to any bus. To enable such interfacing, many propose separating a core's interface from its internals by using a bus wrapper. ...

Keywords: Bus wrapper, PPCI, VSIA, cores, design reuse, intellectual property, interfacing, on-chip bus, system-on-a-chip

5 [Efficient passage ranking for document databases](#) Marcin Kaszkiel, Justin Zobel, Ron Sacks-Davis

October 1999 Transactions on Information Systems (TOIS) , Volume 17 Issue 4

Publisher: ACM

Full text available:  Pdf (328.98 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 87, Citation Count: 23

Queries to text collections are resolved by ranking the documents in the collection and returning the highest-scoring documents to the user. An alternative retrieval method is rank passages, that is, short fragments of documents, a strategy that can ...


Keywords: inverted files, passage retrieval, query evaluation, text databases, text retrieval

6 [The effects of asymmetry on TCP performance](#)

Hari Balakrishnan, Randy H. Katz, Venkata N. Padmanabhan


October 1999 Mobile Networks and Applications , Volume 4 Issue 3

Publisher: Kluwer Academic Publishers

Full text available:  Pdf (382.76 KB) Additional Information: full citation, abstract, references, cited by, index terms


Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 87, Citation Count: 6

In this paper, we study the effects of network asymmetry on end-to-end TCP performance and suggest techniques to improve it. The networks investigated in this study include a wireless cable modem network and a packet radio network, both of which can ...

7 [Building a distributed full-text index for the web](#) Sergey Melnik, Srikanth Raghavan, Beverly Yang, Hector Garcia-Molina

July 2001 Transactions on Information Systems (TOIS) , Volume 19 Issue 3

Publisher: ACM

Full text available:  Pdf (651.72 KB) Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 136, Citation Count: 9

We identify crucial design issues in building a distributed inverted index for a large collection of Web pages. We introduce a novel pipelining technique for structuring the core index-building system that substantially reduces the index construction ...

Keywords: Distributed indexing, Embedded databases, Inverted files, Pipelining, Text retrieval

8 [An efficient and lightweight embedded Web server for Web-based network element management](#)

Hong-Taek Ju, Mi-Joung Choi, James W. Hong

September 2000 *International Journal of Network Management* , Volume 10 Issue 5


Publisher: John Wiley & Sons, Inc.

Full text available:  Pdf (428.26 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 110, Citation Count: 1

An Embedded Web Server ∥EWS∥ is a Web server which runs on an embedded system with limited computing resources to serve embedded Web documents to a Web browser. By embedding a Web server into a network device, it is possible to provide a Web‐based ...

9 [The implementation and performance of compressed databases](#)

 Till Westmann, Donald Kossmann, Sven Helmer, Guido Moerkotte

September 2000 *SI GMOD Record* , Volume 29 Issue 3

Publisher: ACM

Full text available:  Pdf (129.75 KB) Additional Information: [full citation](#), [abstract](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 69, Citation Count: 16


In this paper, we show how compression can be integrated into a relational database system. Specifically, we describe how the storage manager, the query execution engine and the query optimizer of a database system can be extended to deal with compressed ...

10 [Megahedron---A 3D Graphics Environment](#)

Michael J. Hammel

September 1997 *Linux Journal* , Volume 1997 Issue 41es

Publisher: Specialized Systems Consultants, Inc.

Full text available:  Html (21.77 KB) Additional Information: [full citation](#), [index terms](#)


Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 12, Citation Count: 0

11 [Run-time modeling and estimation of operating system power consumption](#)

 Tao Li, Lizy Kurian John

June 2003 *SI GMETRICS '03: Proceedings of the 2003 ACM SIGMETRICS international conference on Measurement and modeling of computer systems*

Publisher: ACM

Full text available:  Pdf (233.33 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 148, Citation Count: 8








The increasing constraints on power consumption in many computing systems point to the need for power modeling and estimation for all components of a system. The Operating System (OS) constitutes a major software component and dissipates a significant ...

Keywords: low power, operating system, power estimation

Also published in:


June 2003 *SIGMETRICS Performance Evaluation Review* Volume 31 Issue 1

12 [Talisman: commodity realtime 3D graphics for the PC](#)

-  Jay Torborg, James T. Kajiya
 August 1996 SIGGRAPH '96: Proceedings of the 23rd annual conference on Computer graphics and interactive techniques
 Publisher: ACM
 Full text available:  Pdf (107.48 KB) Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)
 Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 158, Citation Count: 83
- 13 [Inverted files versus signature files for text indexing](#)
 Justin Zobel, Alistair Moffat, Kotagiri Ramamohanarao
 December 1998 Transactions on Database Systems (TODS) , Volume 23 Issue 4
 Publisher: ACM
 Full text available:  Pdf (243.62 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)
 Bibliometrics: Downloads (6 Weeks): 26, Downloads (12 Months): 237, Citation Count: 28
- Two well-known indexing methods are inverted files and signature files. We have undertaken a detailed comparison of these two approaches in the context of text indexing, paying particular attention to query evaluation speed and space requirement We ...
- Keyw ords: indexing, inverted files, performance, signature files, text databases, text indexing
- 14 [System-level power optimization: techniques and tools](#)
 Luca Benini, Giovanni de Micheli
 April 2000 Transactions on Design Automation of Electronic Systems (TODAES) , Volume 5 Issue 2
 Publisher: ACM
 Full text available:  Pdf (385.22 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)
 Bibliometrics: Downloads (6 Weeks): 83, Downloads (12 Months): 605, Citation Count: 74
- This tutorial surveys design methods for energy-efficient system-level design. We consider electronic sytems consisting of a hardware platform and software layers. We consider the three major constituents of hardware that consume energy, namely computation, ...
- 15 [QSPiat: a multiresolution point rendering system for large meshes](#)
 Szymon Rusinkiewicz, Marc Levoy
 July 2000 SIGGRAPH '00: Proceedings of the 27th annual conference on Computer graphics and interactive techniques
 Publisher: ACM Press/Addison-Wesley Publishing Co.
 Full text available:  Pdf (3.27 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)
 Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 159, Citation Count: 150
- Advances in 3D scanning technologies have enabled the practical creation of meshes w hundreds of millions of polygons. Traditional algorithms for display, simplification, and progressive transmission of meshes are impractical for data sets of this ...
- Keyw ords: compression algorithms, level of detail algorithms, rendering systems, spatial data structures
- 16 [JAZZ: an efficient compressed format for Java archive files](#)
 Quetzalcoatl Bradley, R. Nigel Horspool, Jan Vitek
 November 1998 CASCON '98: Proceedings of the 1998 conference of the Centre for

Advanced Studies on Collaborative research

Publisher: IBM Press

Full text available:  Pdf (73.54 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 20, Citation Count: 7


The Jazz file format is intended to be a replacement for the JAR file format when used storage and distribution of Java programs. A Jazz file is compressed to a degree that far exceeds what is possible with a JAR file. The smaller size of the Jazz ...

17 [Fast and flexible word searching on compressed text](#)

Edleno Silva de Moura, Gonzalo Navarro, Nivio Ziviani, Ricardo Baeza-Yates

April 2000 Transactions on Information Systems (TOIS) , Volume 18 Issue 2

Publisher: ACM

Full text available:  Pdf (165.20 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 135, Citation Count: 24

We present a fast compression technique for natural language texts. The novelties are that (1) decompression of arbitrary portions of the text can be done very efficiently, (2) exact search for words and phrases can be done on the compressed text directly, ...

Keywords: compressed pattern matching, natural language text compression, word searching, word-based Huffman coding

18 [Approximate frequency counts over data streams](#)

Gurmeet Singh Manku, Rajeev Motwani

August 2002 VLDB '02: Proceedings of the 28th international conference on Very Large Databases

Publisher: VLDB Endowment

Full text available:  Pdf (227.42 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 117, Citation Count: 18

We present algorithms for computing frequency counts exceeding a user-specified threshold over data streams. Our algorithms are simple and have provably small memory footprints. Although the output is approximate, the error is guaranteed not to exceed ...

19 [Data compression in Oracle](#)

Meikel Poess, Dmitry Potapov

September 2003 VLDB '2003: Proceedings of the 29th international conference on Very large data bases - Volume 29 , Volume 29

Publisher: VLDB Endowment

Full text available:  Pdf (289.76 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 29, Downloads (12 Months): 97, Citation Count: 1

The Oracle RDBMS recently introduced an innovative compression technique for reducing the size of relational tables. By using a compression algorithm specifically designed for relational data, Oracle is able to compress data much more effectively than ...

20 [The simulation and evaluation of dynamic voltage scaling algorithms](#)


Trevor Pering, Tom Burd, Robert Brodersen

August 1998 ISLPED '98: Proceedings of the 1998 international symposium on Low power electronics and design

Publisher: ACM

Full text available:

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

 Pdf (788.01 KB)[terms](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 113, Citation Count: 118

The reduction of energy consumption in microprocessors can be accomplished without impacting the peak performance through the use of dynamic voltage scaling (DVS). This approach varies the processor voltage under software control to meet dynamically ...

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